

Atty Docket No.: JCLA6244-C1

Serial No.: 09/611,562

Amended

adjoining partitioned slits in the vertical direction, as well as a mutually different length between directly opposite partitioned slits in the horizontal direction. As a result, the position at which the slits are partitioned is staggered. However, slits 53 and 54 formed side by side between heat transfer coil 4 and heat transfer coil 4 are of the same length. In Fig. 5, the partition position 5, 6 are represented by dash lines. Namely, slits 51, 52 and slits 55, 56 are partitioned from one slit at position 5 and 6 respectively. In addition, referring to Figs. 1 and 5, the two slits 51, 52 formed in front of the heat transfer coil 4 each having mutually different lengths, and two slits 55, 56 formed behind said heat transfer coil 4 each having mutually different lengths. The slits 51, 52, 55, 56 are perpendicular to the air flow, and the cut profile at the partition position 5, 6 (in the width direction) of each of the slits is parallel to the air flow.

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In The Claim:

Please amend claims 1-4 as follows:

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1. (Third Amended) A heat exchanger in which heat transfer coils penetrate through a row of multiple plate-shaped heat transfer fins set at a specified fin pitch and in which air is supplied orthogonally to said heat transfer coils, characterized by a configuration so as to satisfy the correlation expressed by the following numerical formula:

$$W_s \geq (1-0.1 (6-N)) \times W_F / (2N+1)$$

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where, W_s = width of each slit formed on said heat transfer fins, W_f = width of a heat transfer fin, and N = the number of slit arrays formed on said heat transfer fin / number of heat transfer fin units.

Unit 2
2. (Third Amended) A heat exchanger in which heat transfer coils penetrate through a row of multiple plate-shaped heat transfer fins set at a specified fin pitch, and slits are formed on each plate-shaped heat transfer fin, and in which air is supplied orthogonally to said heat transfer coils, characterized by a configuration in which the width of each slit formed orthogonal to the air flow on each heat transfer fin is set within a range of 0.17 - 0.29 times a diameter of the heat transfer coils, wherein two slits formed in front of the heat transfer coil each having mutually different lengths and two slits formed behind said heat transfer coil each having mutually different lengths, and the slits are perpendicular to the air flow and a cut profile of each of the slits is parallel to the air flow.

3. (Third Amended) A heat exchanger in which heat transfer coils penetrate through a row of multiple plate-shaped heat transfer fins set at a specified fin pitch, and slits are formed on each plate-shaped heat transfer fin, and in which air is supplied orthogonally to said heat transfer coils, characterized by a configuration in which the spacing between slits formed on the heat transfer fins is set within a range of 0.18 - 0.5 times the diameter of the heat transfer coils, wherein two slits formed in front of the heat transfer coil each having mutually different lengths and two slits formed behind said heat transfer coil each having mutually different lengths, and the

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slits are perpendicular to the air flow and a cut profile of each of the slits is parallel to the air flow.

4. (Third Amended) A heat exchanger in which heat transfer coils penetrate through a row of multiple plate-shaped heat transfer fins set at a specified fin pitch, and slits are formed on each plate-shaped heat transfer fin, and in which air is supplied orthogonally to said heat transfer coils, characterized by a configuration in which the width of each slit formed on each heat transfer fin is set within a range of 0.17 - 0.29 times the diameter of the heat transfer coils, and the spacing between slits formed on the heat transfer fins is set within a range of 0.18 - 0.5 times the diameter of the heat transfer coils, wherein two slits formed in front of the heat transfer coil each having mutually different lengths and two slits formed behind said heat transfer coil each having mutually different lengths, and the slits are perpendicular to the air flow and a cut profile of each of the slits is parallel to the air flow.

Please cancel claim 5 without prejudice and disclaimer.